

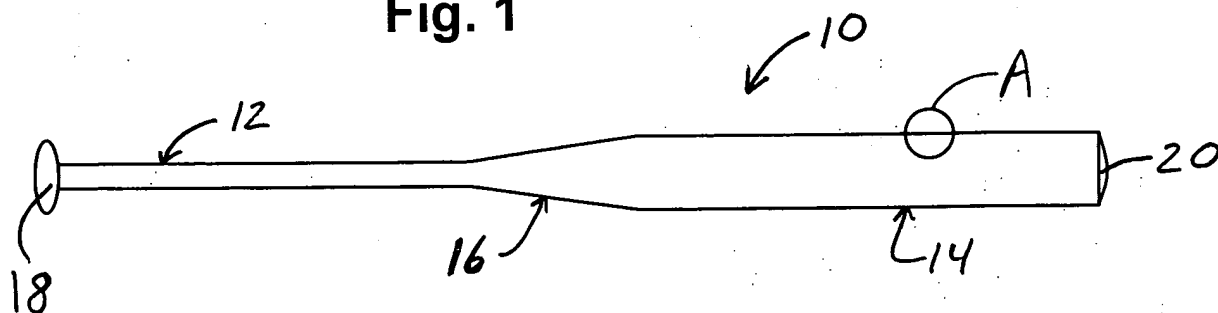
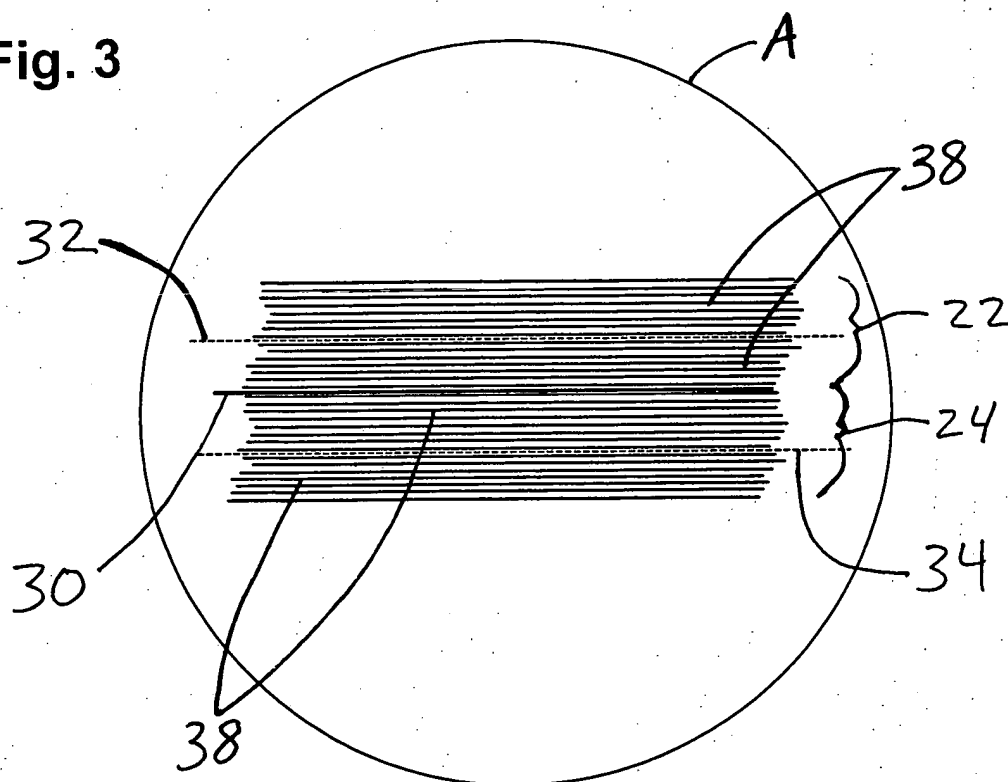
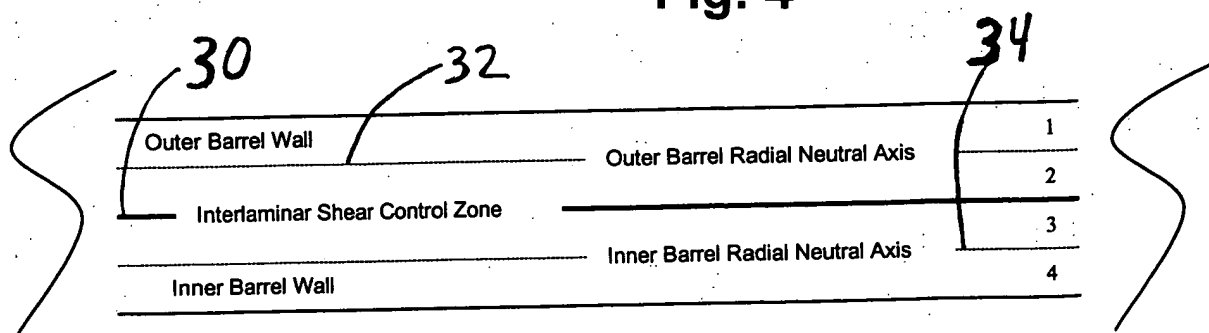
Fig. 1**Fig. 3****Fig. 4**

Fig. 2

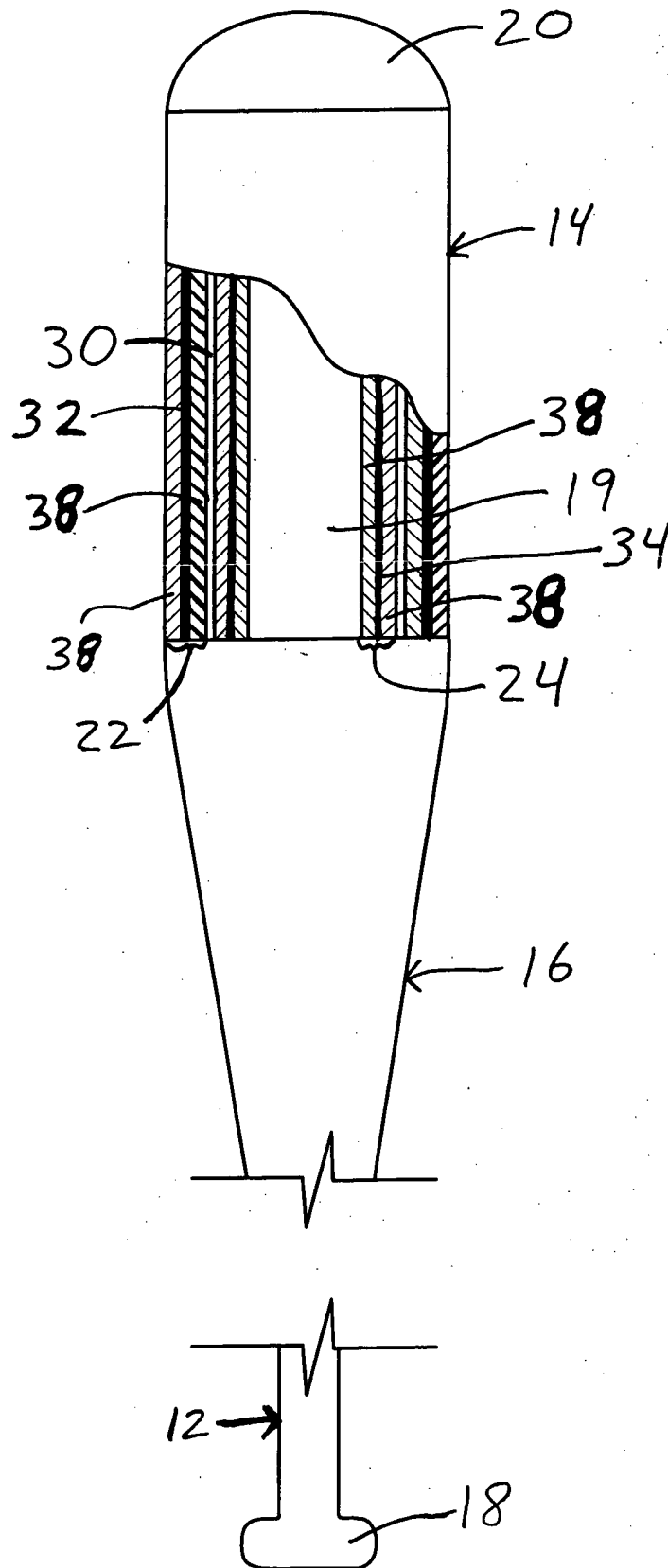


Table 1. Specific Energy Storage of Common Composite Structural Materials

Property/Material						
	Graphite	Eglass	Sglass	Kevlar	Boron	T300
	Epoxy	Epoxy	Epoxy	Epoxy	Epoxy	Epoxy
						Fabric
Stiffness						
Ex (psi)	2.00E+07	5.60E+06	6.91E+06	1.10E+07	2.96E+07	1.07E+07
Strength						
Long Tens. (psi)	2.10E+05	1.54E+05	2.46E+05	2.03E+05	1.83E+05	7.20E+04
Long Comp. (psi)	2.10E+05	8.85E+04	1.68E+05	3.41E+04	3.63E+05	5.10E+04
Density						
ρ	1.60	1.80	1.83	1.46	2.00	1.50
Specific Energy Storage						
Tensile (psi)	1.38E+03	2.35E+03	4.79E+03	2.56E+03	5.65E+02	3.24E+02
Compression (psi)	1.38E+03	7.77E+02	2.23E+03	7.22E+01	2.22E+03	1.62E+02

Fig. 5